

## ARCS 2014

27<sup>TH</sup> GI/ITG INTERNATIONAL CONFERENCE ON ARCHITECTURE OF COMPUTING SYSTEMS  
THIS YEAR'S FOCUS: CONNECTING COMPUTING WITH THE PHYSICAL WORLD

Lübeck, Germany  
February 25 - 28, 2014  
[www.arcs2014.iti.uni-luebeck.de](http://www.arcs2014.iti.uni-luebeck.de)

### CALL FOR PAPERS

**EXTENDED Submission Deadline: September 27, 2013**  
~~Submission Deadline: September 15, 2013~~

The ARCS series of conferences has over 30 years of tradition reporting top notch results in computer architecture and operating systems research. The focus of the 2014 conference will be on embedded computer systems connecting computing with the physical world. Like the previous conferences in this series, it continues to be an important forum for computer architecture research.

In 2014 ARCS will be organized by the Institute of Computer Engineering and will be hosted by the University of Lübeck, Germany.

The proceedings of ARCS 2014 will be published in the Springer Lecture Notes on Computer Science (LNCS) series. After the conference, it is planned that the authors of selected papers will be invited to submit an extended version of their contribution for publication in a special issue of the Journal of Systems Architecture. Also, a best paper and best presentation award will be presented at the conference.

**Paper submission:** Authors are invited to submit original, unpublished research papers on one of the following topics:

- Architectures and design methods/tools for robust, fault-tolerant, real-time embedded systems.
- Cyber-physical systems and distributed computing architectures.
- Multi-/manycore architectures, memory systems, and interconnection networks.
- Tool support for manycore systems including but not limited to programming models, runtime systems, middleware, and verification.
- Generic and application-specific accelerators in heterogeneous architectures.
- Adaptive system architectures such as reconfigurable systems in hardware and software.
- Organic and Autonomic Computing including both theoretical and practical results on self-organization, self-configuration, self-optimization, self-healing, and self-protection techniques.
- Operating Systems including but not limited to scheduling, memory management, power management, and RTOS.
- Energy-awareness and green computing.
- System aspects of ubiquitous and pervasive computing such as sensor nodes, novel input/output devices, novel computing platforms, architecture modeling, and middleware.
- Grid and cloud computing.
- Architectures for robotics and automation systems.
- Applications of embedded and cyber-physical systems.

Submissions should be done through the link that is provided at the conference website <http://www.arcs2014.iti.uni-luebeck.de>. Papers must be submitted in PDF format.

They should be formatted according to Springer LNCS style (see: <http://www.springer.de/comp/lncs/authors.html>) and not exceed 12 pages.

**Workshop and Tutorial Proposals:** Proposals for workshops and tutorials within the technical scope of the conference are solicited. Submissions should be done through email directly to the corresponding chair:

Walter Stechele, TU München, Germany, ([walter.stechele@tum.de](mailto:walter.stechele@tum.de))

**Important Dates:**

**EXTENDED submission deadline:** September 27, 2013

~~Paper submission deadline:~~ ~~September 15, 2013~~

Workshop and tutorial proposals: October 7, 2013

Notification of acceptance: November 15, 2013

Camera-ready papers: December 1, 2013

**Organizing Committee:**

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